

Notice of Allowability	Application No.	Applicant(s)	
	09/894,668	TADEPALLI ET AL.	
	Examiner	Art Unit	
	Craig A. Renner	2652	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to paper(s) filed 22 December 2005.
2. ☒ The allowed claim(s) is/are 1,3,4,8-15,17,19 and 20 (renumbered 1-14, respectively).
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|---|
| <ol style="list-style-type: none"> 1. <input type="checkbox"/> Notice of References Cited (PTO-892) 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____ 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | <ol style="list-style-type: none"> 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) 6. <input checked="" type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____ 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment 8. <input type="checkbox"/> Examiner's Statement of Reasons for Allowance 9. <input type="checkbox"/> Other _____ |
|---|---|

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1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

2. Authorization for this examiner's amendment was given in a telephone interview with Mitchell K. McCarthy on 04 February 2006.

3. The application has been amended as follows:

IN THE CLAIMS:

The claim listing has been amended as follows:

1. (Currently Amended) An airstream conditioning apparatus for a data storage device for attenuating the aerodynamic excitation of air currents on device components, the data storage device having an enclosure supporting a rotating data storage disc and an actuator operatively interfacing in a data transfer relationship, the apparatus comprising:

an airstream stripper ~~supportable~~ downstream of the actuator with respect to the direction of the air currents produced by the rotating disc and extending adjacent a data storage surface of the disc from an outermost radial portion of the data storage surface to an inner radial portion of the data storage surface and thereby noncontactingly disposed beyond a distal end of the actuator along an actuator path of travel; and

~~a frame supportable by the enclosure, the frame further comprising:~~

a shroud upstream of the airstream stripper defining a perimeter surface substantially transverse to the data storage disc ~~outer edge~~ and intersecting the airstream stripper, wherein the shroud comprises a fin defining a planar surface extending ~~from a~~ from the perimeter surface and substantially coextensive with the data storage disc.

2. (Canceled).

3. (Currently Amended) The apparatus of claim 1 wherein the data storage device supports a plurality of the data storage discs stacked with spacers between adjacent data storage discs and commonly rotated as a disc stack, wherein the airstream stripper ~~comprises a plurality of vanes extending substantially radially from an outer radial portion to an inner radial portion of the data storage discs of the disc stack~~ and extends between adjacent data storage discs.

4. (Currently Amended) The apparatus of claim 1 ~~[[2]]~~ wherein ~~the vane is disposed~~ airstream stripper extends substantially transverse to ~~[[a]]~~ the distal end of the actuator.

5-7. (Canceled).

8. (Previously Presented) The apparatus of claim 1 wherein the data storage disc comprises opposing planar surfaces, each supporting a data storage surface, and wherein the fin comprises opposing planar surfaces substantially coextensive with the respective data storage surface.

9. (Previously Presented) The apparatus of claim 1 wherein the fin comprises an edge substantially transverse to the planar surface and closely matingly parallel with the data disc outer edge.

10. (Currently Amended) The apparatus of claim 1 ~~wherein the~~ further comprising a frame supporting ~~supports~~ the airstream stripper in movement between an operative position and a retracted position.

11. (Original) The apparatus of claim 10 wherein the frame comprises a retaining member retaining the airstream stripper in the operative position.

12. (Currently Amended) The apparatus of claim 1 ~~wherein the~~ further comprising a frame with ~~comprises~~ a bias member compressingly engageable with the enclosure providing an attachment force on the frame within the enclosure.

13. (Previously Presented) The apparatus of claim 1 wherein the perimeter surface is separated from the data storage disc edge a first distance at a first end of the perimeter surface adjacent the airstream stripper, and wherein the perimeter surface is separated from the data disc edge a second distance at a second end of the perimeter surface, the second distance being greater than the first distance.

14. (Original) The apparatus of claim 1 wherein the data storage device comprises a disc drive assembly.

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15. (Currently Amended) A disc drive, comprising:
- an enclosure;
 - a disc ~~stack~~ rotated by a motor; ~~[[:]]~~
 - an actuator having a distal end moving a data transfer element in a data transfer relationship with a data storage surface of the disc ~~stack~~; and
 - an airstream conditioning apparatus supported by the enclosure comprising:
 - an airstream stripper downstream of the actuator with respect to the direction of air currents generated by the rotating disc ~~stack~~ and extending adjacent the data storage surface from an outermost radial portion of the data storage surface to an inner radial portion of the data storage surface and thereby noncontactingly disposed beyond the distal end of the actuator along an actuator path of travel; and
 - ~~a frame supportable by the enclosure, the frame further comprising:~~
 - a shroud upstream of the airstream stripper defining a perimeter surface substantially transverse to the ~~data storage disc outer edge~~ and intersecting the airstream stripper, wherein the shroud comprises a fin defining a planar surface extending ~~from a~~ from the perimeter surface and substantially coextensive with the ~~data storage~~ disc.

16. (Canceled).

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17. (Currently Amended) The disc drive of claim ~~15~~ 16 wherein the ~~vane~~
~~is disposed~~ airstream stripper extends substantially transverse to the actuator distal
end.

18. (Canceled).

19. (Currently Amended) The disc drive of claim 15 wherein ~~the shroud~~
~~upstream of the airstream strip and comprises a fin~~ extends ~~extending~~ from the
perimeter surface substantially parallel with the disc ~~stack~~.

20. (Original) A disc drive, comprising:
a base supporting a spinning data storage disc operatively interfacing with an
actuator in a data reading and writing relationship; and
means for limiting the aerodynamic excitation resulting from air currents generated
by the spinning disc.


21-24. (Canceled).

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4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Craig A. Renner whose telephone number is (571) 272-7580. The examiner can normally be reached on Tuesday-Friday 9:00 AM - 7:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, A. L. Wellington can be reached on (571) 272-4483. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


Craig A. Renner
Primary Examiner
Art Unit 2652

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